Abstract

Introduction. Attention dysfunction was a major characteristic of people with attention deficit hyperactivity disorder (ADHD), especially sustained attention. There were controversies regarding the association between both age and intelligence with attentional ability.

Method. The digit cancellation task and Wechsler Intelligence Scale for Children -4^{th} Edition (Hong Kong) were used to assess attention ability and intelligence respectively. There were 75 subjects with ADHD diagnosis (mean age = 9.98) and 74 control subjects (mean age = 9.79 completed the assessments.

Result. There is a negative association between age and attentional dysfunction among both clinical and control group. There is a negative association between intelligence and attentional dysfunction among clinical group. No association was found between intelligence and attentional dysfunction among control group.

Discussion. The age-related improvement on attentional ability may due to the development of attention with age, or maturation of attention skills and strategies, or both. The intelligence-related enhancement on attention may due to the shared genes that manifest both attentional ability and intelligence, or the process of cortical development that affected both

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constructs. Ceiling effect may explain why no association was found between intelligence and attention in control group.